SEQUENCE LISTING

<110> Sheridan, Mark
Kittilson, Jeffrey
Moore, Craig

<120> Somatostatins and Methods

<130> 255.00040101

<140> US 09/727,739
<141> 2000-12-01

<150> US 60/168,934
<151> 1999-12-03

<160> 52

<170> PatentIn version 3.0

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<213> Oncorhynchus mykiss

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20 25 30

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35 40 45

Ala Arg Asn Thr Leu Val Glu Leu Leu Ser Glu Leu Ala His Val Glu
50 55 60

Asn Glu Ala Ile Glu Leu Asp Asp Met Ser His Gly Val Glu Gln Glu
65 70 75 80

Asp Val Asp Leu Glu Leu Glu Arg Ala Pro Gly Pro Val Leu Ala Pro
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Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr
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Ser Cys

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<213> Oncorhynchus mykiss

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<213> Oncorhynchus mykiss

<400> 5

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Leu Ala Ile Ser Ser Val Ser Ala Ala Pro Ser Asp Ala Lys Leu Arg
20 25 30

Gln Leu Leu Gln Arg Ser Leu Met Ala Pro Ala Gly Lys Gln Glu Leu
35 40 45

Ala Arg Asn Thr Leu Val Glu Leu Leu Ser Glu Leu Ala His Val Glu
50 55 60

Asn Glu Ala Ile Glu Leu Asp Asp Met Ser His Gly Val Glu Gln Glu
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<213> Oncorhynchus mykiss

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D' Cont.

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<213> Oncorhynchus mykiss

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Leu Ala Ile Ser Ser Val Ser Ala
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<213> Oncorhynchus mykiss

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<213> Oncorhynchus mykiss

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Met Lys Val Cys Arg Ile His Cys Ala Leu Ala Leu Leu Gly Leu Ala
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Leu Ala Ile Cys Ser Gln Gly Ala Ala Ser Gln Pro Asp Leu Asp Leu
20 25 30

Arg Ser Arg Arg Leu Leu Gln Arg Ala Arg Ala Ala Ala Leu Pro His
35 40 45

Arg Ser Gly Val Ser Glu Arg Trp Arg Thr Phe Tyr Pro Asn Cys Pro
50 55 60

Cys Leu Arg Pro Arg Lys Val Lys Cys Pro Ala Gly Ala Lys Glu Asp
65 70 75 80

Leu Arg Val Glu Leu Glu Arg Ser Val Gly Asn Pro Asn Asn Leu Pro
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Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Tyr Trp Lys Gly Phe

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Thr Ser Cys
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<213> Oncorhynchus mykiss

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Met Lys Val Cys Arg Ile His Cys Ala Leu Ala Leu Leu Gly Leu Ala
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20 25 30

Arg Ser Arg Arg Leu Leu Gln Arg Ala Arg Ala Ala Ala Leu Pro His
35 40 45

Arg Ser Gly Val Ser Glu Arg Trp Arg Thr Phe Tyr Pro Asn Cys Pro
50 55 60

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<211> 25

<212> PRT

<213> Oncorhynchus mykiss

<400> 13

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Leu Ala Ile Cys Ser Gln Gly Ala Ala
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<213> Oncorhynchus mykiss

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<213> Oncorhynchus mykiss

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Met Arg Val Ser Gln Ile His Cys Ala Leu Ala Leu Leu Gly Leu Ala
1 5 10 15

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20 25 30

Ala Ser Arg Arg Leu Leu Gln Arg Ala Leu Ala Ala Ala Leu Pro His
35 40 45

Arg Ser Gly Val Ser Glu Arg Trp Arg Thr Phe Tyr Pro Asn Cys Pro
50 55 60

Cys Leu Arg Trp Arg Pro Arg Lys Val Lys Gly Pro Gln Leu Lys Ala
65 70 75 80

Lys Glu Asp Leu Glu Arg Ser Val Asp Asn Leu Pro Pro Arg Glu Arg
85 90 95

Lys Ala Gly Cys Lys Asn Phe Tyr Trp Lys Gly Phe Thr Ser Cys
100 105 110

<210> 16

<211> 25

<212> PRT

<213> Oncorhynchus mykiss

<400> 16

Ser Val Asp Asn Leu Pro Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn
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Phe Tyr Trp Lys Gly Phe Thr Ser Cys
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<211> 86

<212> PRT

<213> Oncorhynchus mykiss

<400> 17

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Leu Ala Ile Cys Ser Gln Gly Ala Ala Ser Gln Pro Asp Leu Asp Leu
20 25 30

Ala Ser Arg Arg Leu Leu Gln Arg Ala Leu Ala Ala Ala Leu Pro His
35 40 45

Arg Ser Gly Val Ser Glu Arg Trp Arg Thr Phe Tyr Pro Asn Cys Pro
50 55 60

Cys Leu Arg Trp Arg Pro Arg Lys Val Lys Gly Pro Gln Leu Lys Ala
65 70 75 80

Lys Glu Asp Leu Glu Arg
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<210> 18

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<213> Oncorhynchus mykiss

<400> 18

Ser Val Asp Asn Leu Pro Pro Arg Glu Arg Lys
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<210> 19

<211> 25

<212> PRT

<213> Oncorhynchus mykiss

<400> 19

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Leu Ala Ile Cys Ser Gln Gly Ala Ala
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<213> Oncorhynchus mykiss

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<213> Homo sapiens

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Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<210> 27

<211> 33

<212> PRT

<213> Myxine glutinosa

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Ser

<210> 28

<211> 14

<212> PRT

<213> Hydrolagus collei

<400> 28

Ala Gly Cys Lys Ser Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<210> 29

<211> 26

<212> PRT

<213> Amia calva

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Ser Ala Asn Pro Ala Leu Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys
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Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<213> Acipenser gueldenstaedti

<400> 30

Ala Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<210> 31

<211> 28

<212> PRT

<213> Lophius americanus

<400> 31

Ala Ala Ser Gly Gly Pro Leu Leu Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

D' cont.

<210> 32

<211> 28

<212> PRT

<213> Sus scrofa

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Ser Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
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Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<210> 33

<211> 21

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<212> PRT

<213> Ictalrus punctatus

D' cont.

<400> 36

Met Ser Ser Ser Pro Leu Arg Leu Ala Leu Ala Leu Met Cys Leu Val
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Ser Ala Val Gly Val Ile Ser Cys Gly Arg Pro His Val Val Leu Asn
20 25 30

Ser Ala Leu Glu Glu Ala Arg Asn Val Pro Phe Gly Glu Glu Val Pro
35 40 45

Glu Arg Leu Thr Leu Pro Glu Leu Gln Trp Met Leu Ser Asn Asn Glu
50 55 60

Leu Thr Pro Val Gln Val Glu Glu Ala Pro Arg Ser Arg Leu Glu Leu
65 70 75 80

Val Arg Arg Asp Asn Thr Val Thr Ser Lys Pro Leu Asn Cys Met Asn
85 90 95

Tyr Phe Trp Lys Ser Arg Thr Ala Cys
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<210> 37

<211> 125

<212> PRT

<213> Lophius americanus

<400> 37

Met Gln Cys Ile Arg Cys Pro Ala Ile Leu Ala Leu Leu Ala Leu Val
1 5 10 15

Leu Cys Gly Pro Ser Val Ser Ser Gln Leu Asp Arg Glu Gln Ser Asp
20 25 30

Asn Gln Asp Leu Asp Leu Glu Leu Arg Gln His Trp Leu Leu Glu Arg
35 40 45

Ala Arg Ser Ala Gly Leu Leu Ser Gln Glu Trp Ser Lys Arg Ala Val
50 55 60

Glu Glu Leu Leu Ala Gln Met Ser Leu Pro Glu Ala Thr Phe Gln Arg
65 70 75 80

Glu Ala Glu Asp Ala Ser Met Ala Thr Glu Gly Arg Met Asn Leu Glu
85 90 95

Arg Ser Val Asp Ser Thr Asn Asn Leu Pro Pro Arg Glu Arg Lys Ala
100 105 110

Gly Cys Lys Asn Phe Tyr Trp Lys Gly Phe Thr Ser Cys
115 120 125

D1 Cont

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<213> Carasius auratus

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Met Arg Leu Cys Glu Leu His Cys Tyr Leu Ala Leu Leu Gly Leu Ser
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Leu Val Leu Cys Gly Arg Cys Ala Asn Ser Gln Leu Glu Pro Asp Leu
20 25 30

Asp Phe Arg His His Arg Leu Leu Gln Arg Ala Ser Ala Thr Gly Gln
35 40 45

Ala Thr Gln Asp Phe Thr Lys Arg Asp Val Glu Lys Leu Leu Ser Leu
50 55 60

Leu Ser Ile Pro Glu Met Glu Met Arg Glu Lys Gly Leu Ser Met Ala
65 70 75 80

Gly Glu Ser Glu Asp Leu Arg Leu Glu Gln Glu Arg Ser Ala Glu Ser
85 90 95

Ser Asn Gln Leu Pro Thr Arg Val Arg Lys Glu Gly Cys Lys Asn Phe
100 105 110

Tyr Trp Lys Gly Phe Thr Ser Cys
115 120

<210> 39

<211> 111

<212> PRT

<213> Carasius auratus

<400> 39

Met Gln Leu Leu Ser Ser Leu Val Ser Leu Leu Leu Val Leu Tyr Ser
1 5 10 15

Val Arg Ala Ala Ala Val Leu Pro Val Glu Glu Arg Asn Pro Ala Gln
20 25 30

Ser Arg Glu Leu Ser Lys Glu Arg Lys Glu Leu Ile Leu Lys Leu Ile
35 40 45

Ser Gly Leu Leu Asp Gly Val Asp Asn Ser Val Leu Asp Gly Glu Ile
50 55 60

Ala Pro Val Pro Phe Asp Ala Glu Glu Pro Leu Glu Ser Arg Leu Glu
65 70 75 80

Glu Arg Ala Val Tyr Asn Arg Leu Ser Gln Leu Pro Gln Arg Asp Arg
85 90 95

Lys Ala Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
100 105 110

D1 Cont

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<211> 103

<212> PRT

<213> Rana ridibunda

<400> 40

Met Leu Gly Ser Ala Gly Thr Leu Leu Leu Leu Leu Leu Ala Trp Gly
1 5 10 15

Ala Arg Ala Leu Ser Gln Pro Asp Asp Asn Arg Ile Thr Thr Gly Arg

20 25 30

Asn Gln Asp Leu Asn Ala Ile Gln Gln Asp Leu Leu Leu Lys Leu Leu
35 40 45

Ser Gly Trp Thr Asp Ser Arg Glu Ser Asn Leu Val Glu Val Glu Arg
50 55 60

Asn Val Pro Asp Pro Pro Glu Pro Lys Ile Pro Pro Ser Val Lys Phe
65 70 75 80

Pro Arg Leu Ser Leu Arg Glu Arg Lys Ala Pro Cys Lys Asn Phe Phe
85 90 95

Trp Lys Thr Phe Thr Met Cys
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<210> 41

<211> 114

<212> PRT

<213> Ictalurus punctatus

<400> 41

Met Pro Ser Thr Arg Ile Gln Cys Ala Leu Ala Leu Leu Ala Val Ala
1 5 10 15

Leu Ser Val Cys Ser Val Ser Gly Ala Pro Ser Asp Ala Lys Leu Arg
20 25 30

Gln Phe Leu Gln Arg Ser Ile Leu Ala Pro Ser Val Lys Gln Glu Leu
35 40 45

Thr Arg Tyr Thr Leu Ala Glu Leu Leu Ala Glu Leu Ala Glu Ala Glu
50 55 60

D' Cont

Asn Glu Val Leu Asp Ser Asp Glu Val Ser Arg Ala Ala Glu Ser Glu
65 70 75 80

Gly Ala Arg Leu Glu Met Glu Arg Ala Ala Gly Pro Met Leu Ala Pro
85 90 95

Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr
100 105 110

Ser Cys

<210> 42

<211> 121

<212> PRT

<213> Lophius americanus

<400> 42

Met Lys Met Val Ser Ser Ser Arg Leu Arg Cys Leu Leu Val Leu Leu
1 5 10 15

Leu Ser Leu Thr Ala Ser Ile Ser Cys Ser Phe Ala Gly Gln Arg Asp
20 25 30

Ser Lys Leu Arg Leu Leu Leu His Arg Tyr Pro Leu Gln Gly Ser Lys
35 40 45

Gln Asp Met Thr Arg Ser Ala Leu Ala Glu Leu Leu Leu Ser Asp Leu
50 55 60

Leu Gln Gly Glu Asn Glu Ala Leu Glu Glu Glu Asn Phe Pro Leu Ala
65 70 75 80

Glu Gly Gly Pro Glu Asp Ala His Ala Asp Leu Glu Arg Ala Ala Ser
85 90 95

Gly Gly Pro Leu Leu Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn
100 105 110

Phe Phe Trp Lys Thr Phe Thr Ser Cys
115 120

<210> 43

<211> 114

<212> PRT

<213> Carasius auratus

<400> 43

Met Leu Ser Thr Arg Ile Gln Cys Ala Leu Ala Leu Leu Ser Leu Ala
1 5 10 15

Leu Ala Val Cys Ser Val Ser Ala Ala Pro Thr Asp Ala Lys Leu Arg
20 25 30

D1 Cont

Gln Leu Leu Gln Arg Ser Leu Leu Asn Pro Ala Gly Lys Gln Glu Leu
35 40 45

Ala Arg Tyr Thr Leu Ala Asp Leu Leu Ser Glu Leu Val Gln Ala Glu
50 55 60

Asn Glu Ala Leu Glu Pro Glu Asp Leu Ser Arg Ala Val Glu Lys Asp
65 70 75 80

Glu Val Arg Leu Glu Leu Glu Arg Ala Ala Gly Pro Met Leu Ala Pro
85 90 95

Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr
100 105 110

Ser Cys

<210> 44

<211> 115

<212> PRT

<213> Rana ridibunda

<400> 44

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Leu Ala Ile Asn Ser Ile Ser Ala Ala Pro Thr Asp Pro Arg Leu Arg
            20                  25                  30

Gln Phe Leu Gln Lys Ser Leu Ala Ser Ala Gly Lys Gln Glu Leu Ala
        35                  40                  45

Lys Tyr Phe Leu Ala Glu Leu Leu Ser Glu Pro Ser Gln Thr Asp Asn
    50                  55                  60

Glu Ala Leu Glu Ser Asp Asp Leu Pro Arg Gly Ala Glu Gln Asp Glu
65                  70                  75                  80

Val Arg Leu Glu Leu Glu Arg Ser Ala Asn Ser Ser Pro Ala Leu Ala
                85                  90                  95

Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe
            100                 105                 110

Thr Ser Cys
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<210> 45

<211> 116

<212> PRT

<213> Gallus gallus

D' Cont

<400> 45

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Leu Ala Val Gly Thr Val Ser Ala Ala Pro Ser Asp Pro Arg Leu Arg
            20                  25                  30

Gln Phe Leu Gln Lys Ser Leu Ala Ala Ala Ala Gly Lys Gln Glu Leu
        35                  40                  45

Ala Lys Tyr Phe Leu Ala Glu Leu Leu Ser Glu Pro Ser Gln Thr Glu
    50                  55                  60

Asn Glu Ala Leu Glu Ser Glu Asp Leu Ser Arg Gly Ala Glu Gln Asp
65                  70                  75                  80

Glu Val Arg Leu Glu Leu Glu Arg Ser Ala Asn Ser Asn Pro Ala Leu
                85                  90                  95

Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr
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100 105 110

Phe Thr Ser Cys
115

<210> 46

<211> 116

<212> PRT

<213> Rattus norvegicus

<400> 46

Met Leu Ser Cys Arg Leu Gln Cys Ala Leu Ala Ala Leu Cys Ile Val
1 5 10 15

Leu Ala Leu Gly Gly Val Thr Gly Ala Pro Ser Asp Pro Arg Leu Arg
20 25 30

Gln Phe Leu Gln Lys Ser Leu Ala Ala Ala Thr Gly Lys Gln Glu Leu
35 40 45

Ala Lys Tyr Phe Leu Ala Glu Leu Leu Ser Glu Pro Asn Gln Thr Glu
50 55 60

Asn Asp Ala Leu Glu Pro Glu Asp Leu Pro Gln Ala Ala Glu Gln Asp
65 70 75 80

Glu Met Arg Leu Glu Leu Gln Arg Ser Ala Asn Ser Asn Pro Ala Met
85 90 95

Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr
100 105 110

Phe Thr Ser Cys
115

<210> 47

<211> 116

<212> PRT

<213> Bos taurus

D' cont.

<400> 47

Met Leu Ser Cys Arg Leu Gln Cys Ala Leu Ala Ala Leu Ser Ile Val
1 5 10 15

Leu Ala Leu Gly Gly Val Thr Gly Ala Pro Ser Asp Pro Arg Leu Arg
20 25 30

Gln Phe Leu Gln Lys Ser Leu Ala Ala Ala Ala Gly Lys Gln Glu Leu
35 40 45

Ala Lys Tyr Phe Leu Ala Glu Leu Leu Ser Glu Pro Asn Gln Thr Glu
50 55 60

Ile Asp Ala Leu Glu Pro Glu Asp Leu Ser Gln Ala Ala Glu Gln Asp
65 70 75 80

Glu Met Arg Leu Glu Leu Gln Arg Ser Ala Asn Ser Asn Pro Ala Met
85 90 95

Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr
100 105 110

Phe Thr Ser Cys
115

<210> 48

<211> 116

<212> PRT

<213> Macaca fascicularis

<400> 48

Met Leu Ser Cys Arg Leu Gln Cys Ala Leu Ala Ala Leu Ser Ile Val
1 5 10 15

Leu Ala Leu Gly Cys Val Thr Gly Ala Pro Ser Asp Pro Arg Leu Arg
20 25 30

Gln Phe Leu Gln Lys Ser Leu Ala Ala Ala Ala Gly Lys Gln Glu Leu
35 40 45

Ala Lys Tyr Phe Leu Ala Glu Leu Leu Ser Glu Pro Asn Gln Thr Glu
50 55 60

Asn Asp Ala Leu Glu Pro Glu Asp Leu Ser Gln Ala Ala Glu Gln Asp
65 70 75 80

Glu Met Arg Leu Glu Leu Gln Arg Ser Ala Asn Ser Asn Pro Ala Met
85 90 95

Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr
100 105 110

Phe Thr Ser Cys
115

D1 Cont

<210> 49

<211> 116

<212> PRT

<213> Homo sapiens

<400> 49

Met Leu Ser Cys Arg Leu Gln Cys Ala Leu Ala Ala Leu Ser Ile Val
1 5 10 15

Leu Ala Leu Gly Cys Val Thr Gly Ala Pro Ser Asp Pro Arg Leu Arg
20 25 30

Gln Phe Leu Gln Lys Ser Leu Ala Ala Ala Ala Gly Lys Gln Glu Leu
35 40 45

Ala Lys Tyr Phe Leu Ala Glu Leu Leu Ser Glu Pro Asn Gln Thr Glu
50 55 60

Asn Asp Ala Leu Glu Pro Glu Asp Leu Ser Gln Ala Ala Glu Gln Asp
65 70 75 80

Glu Met Arg Leu Glu Leu Gln Arg Ser Ala Asn Ser Asn Pro Ala Met
85 90 95

Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr
100 105 110

Phe Thr Ser Cys
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<211> 47

<212> DNA

<213> Artificial

<220>

<223> Primer

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<210> 51

<211> 29

<212> DNA

<213> Artificial

D' Cont

<220>

<223> Primer

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